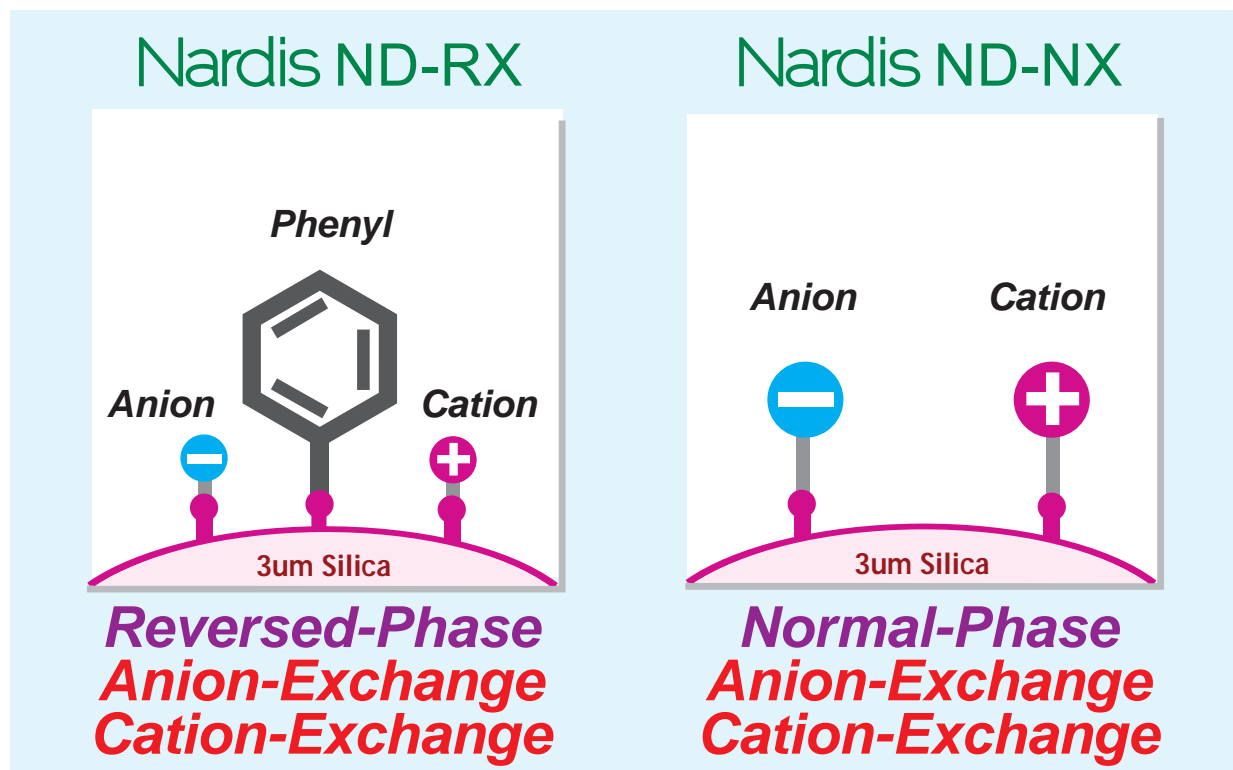


Nardis ND-RX
Nardis ND-NX

HPLC COLUMN NOTE

Surface Structure of Nardis Stationary Phase



The Nardis column series features two types of surface structures as follows:

[Nardis ND-RX]

This is a 'reversed-phase + dual ion exchange' column, where the fully porous silica surface is modified with a phenyl stationary phase and dual ion ligands. It is designed to improve the separation of compounds that are difficult to separate in traditional reversed-phase modes such as with a phenyl stationary phase. In addition to the pi-electrons of the phenyl stationary phase, the charge and electrostatic interactions originating from the dual ion ligands may provide a separation selectivity different from traditional reverse phase columns. By varying the mobile phase pH and ion strength, in addition to using organic solvents like acetonitrile, it is possible to achieve separation behaviors different from conventional columns.

[Nardis ND-NX]

This is a 'normal-phase + dual ion exchange' column, with dual ion ligands modified on the fully porous silica surface. It is effective in retaining and separating highly polar compounds, which are challenging to handle with traditional silica or amino stationary phases. By reducing the concentration of acetonitrile (normal-phase mode) and altering the proportion of aqueous mobile phase, pH, and ion strength, it enables elution of compounds